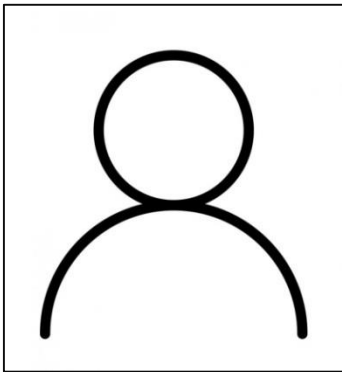


**Associate Professor *Ewa Hanus-Fajerska***



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**Consultation hours: Friday, 13.30-14.30**

**Research interest:**

- floristic diversity
- plant responses to stress, and appropriate adaptations or acclimation strategies
- remediation strategies of polluted areas,
- plant cell and tissue culture and phytoremediation

**Research experience:**

since 2019: Associate Professor ; post-doctoral degree in Agricultural Sciences in the domain of Horticulture, principal field of study – plant tissue culture and phytoremediation. The habilitation thesis "The exploitation of *in vitro* techniques to the production of metallophytes, useful in substrates contaminated with cadmium, lead and zinc remediation" An internship at the Stanford University Library (California, USA), in Wageningen Agricultural University (Holland). and a scholarship holder of the Dekaban Foundation the receiving unit was Botanical Garden and Centre for Plant Research, Faculty of Land and Food Systems, The University of British Columbia, Vancouver, (Canada).

**Professional profiles:**

ORCID: <https://orcid.org/0000-0001-0641>

Research Gate: [https://www.researchgate.net/profile/Ewa\\_Hanus--Fajerska](https://www.researchgate.net/profile/Ewa_Hanus--Fajerska)

Google Scholar: <https://scholar.google.pl/citations?user=Vz8dh2cAAAAJ&hl=pl>

List of chosen publications:

**Hanus-Fajerska E.**, Ciarkowska K., Muszyńska E. 2019. Long-term field study on stabilization of contaminated wastes by growing clonally reproduced *Silene vulgaris* calamine ecotype. *Plant and Soil* 439: 341-445. DOI: 10.1007/s11104-019-04043-8

Muszyńska E., Labudda M., Róžańska E., **Hanus-Fajerska E.**, Koszelnik-Leszek A. 2019. Structural, physiological and genetic diversification of *Silene vulgaris* ecotypes from heavy metal-contaminated areas and their synchronous *in vitro* cultivation. *Planta* <https://doi.org/10.1007/s00425-019-03123-4>

Koźmińska A., Wiszniewska A., **Hanus-Fajerska E.**, Boscaiu M., Al Hassan M., Halecki W., Vicente O. 2019. Identification of salt and drought biochemical markers in several *Silene vulgaris* populations. *Sustainability* 11(3):800. doi:10.33390/su11030800

Muszyńska E., Labudda M., **Hanus-Fajerska E.** 2019. Change in proteolytic activity and protein carbonylation in shoots of *Alyssum monatanum* ecotypes under multi-metal stress. *Journal of Plant Physiology* 232: 61-64. doi.org/10.1016/j.plph.2018.11.013

Koźmińska A., Wiszniewska A., **Hanus-Fajerska E.**, Muszyńska E. 2018. Recent strategies of increasing metal tolerance and phytoremediation potential using genetic transformation of plants. *Plant Biotechnology Reports*, 12(1): 1-14 DOI:10.1007/s11816-017-0467-2

Wiszniewska A., **Hanus-Fajerska E.**, Muszyńska E., Ciarkowska K. 2016. Natural organic amendments for improved phytoremediation of polluted soils. A review of recent progress. *Pedosphere* 26(1): 1-12

Muszyńska E., **Hanus-Fajerska E.**, Koźmińska A. 2018. Differential tolerance to lead and cadmium of micropropagated *Gypsophila fastigiata* ecotype. *Water, Air & Soil Pollution* 229(2):42. <https://doi.org/10.1007/s11270-10070-018-3702-8>

Muszyńska E., **Hanus-Fajerska E.** 2017. *In vitro* multiplication of *Dianthus carthusianorum* calamine ecotype with the aim to revegetate and stabilize of polluted wastes. *Plant, Cell Tissue and Organ Culture* 128: 638-640. DOI 10.1007/s 1240-016-1140-0

Ciarkowska K., **Hanus-Fajerska E.**, Gambuś F., Muszyńska E., Czech T. 2017. Phytostabilization of Zn-Pb ore waste settlers. Results of three-year pot experiment with *Dianthus carthusianorum* and *Biscutella laevigata* cultivated on flotation tailings amended with mineral fertilizers or sewage sludge. *Journal of Environmental Management* 189: 75-83.